

Love is Complicated

by Arya Akhavan (January 2014)

Angles for R.I. = 1.500

115 + 15 girdles = 130 facets

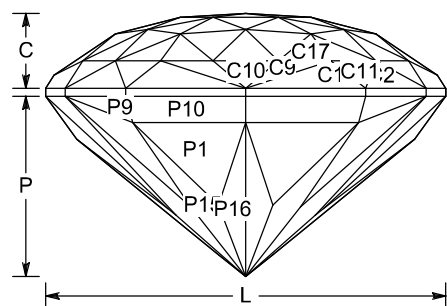
6-fold, mirror-image symmetry

96 index

L/W = 1.099

P/W = 0.494 C/W = 0.206

Vol./W³ = 0.272



PAVILION

P1	44.00°	08-19-40-48-56-77-88	Cut to centerpoint.
P2	43.44°	20-76	Meet at culet.
P3	43.50°	38-58	Meet at culet.
P4	43.93°	39-57	Meet at culet.
P5	44.64°	16-80	Meet at culet.
G1	90.00°	19-77	Set stone size.
G2	90.00°	27-69	Meet P1, P2, G1
P6	65.76°	27-69	Level girdle.
P7	65.83°	29-67	Meet P2, P3, P6
P8	53.15°	35-61	Meet P2, P3, P6, P7
G3	90.00°	29-67	Level girdle.
G4	90.00°	35-61	Level girdle.
G5	90.00°	39-57	Level girdle.
G6	90.00°	48	Meet P1, P4, G5
G7	90.00°	14-82	Meet P1, P6, G1
P9	60.86°	14-82	Meet P1, P5, G1, G7
P10	58.27°	08-88	Meet P1, P5, P9
P11	69.77°	48	Level girdle.
G8	90.00°	08-88	Level girdle.
P12	42.80°	41-55	Meet P1, P11
P13	41.55°	21-75	Meet P2, P3, P6, P7, P8; culet
P14	43.74°	17-79	Meet P1, P5, G1, G7; culet
P15	42.99°	09-87	Meet P1, P5, P9, P10; culet
P16	42.34°	07-89	Meet P1, P10; culet

CROWN

C1	72.98°	08-88	Set girdle width.
C2	76.51°	14-82	Level girdle.
C3	57.83°	19-77	Level girdle.
C4	58.42°	27-69	Level girdle.
C5	47.70°	29-67	Level girdle.
C6	48.77°	35-61	Level girdle.
C7	49.10°	39-57	Level girdle.
C8	68.84°	48	Level girdle.
C9	51.55°	06-90	Meet G8, C1
C10	36.51°	96	Meet G8, C1, C9
C11	64.74°	10-86	Meet G7, G8, C1, C2
C12	59.50°	16-80	Meet G1, G7, C2, C3
C13	47.53°	28-68	Meet G2, G3, C4, C5
C14	41.09°	32-64	Meet G3, G4, C5, C6
C15	43.01°	41-55	Meet G5, G6, C7, C8; C6, C7, C14
C16	45.29°	44-52	Meet G5, G6, C7, C8, C15
C17	34.13°	06-10-22-26-70-74-86-90	Meet 3 different places.
C18	29.02°	96-16-32-64-80	Meet 5 different places. Start triangles.
C19	27.48°	02-14-18-30-34-46-50-62-66-78-82-94	Meet 6 different places. Cut triangles.
C20	14.70°	04-12-20-28-36-44-52-60-68-76-84-92	Meet C17, C19; C18, C19
C21	12.09°	96-16-32-48-64-80	Meet C18, C19, C20
C22	4.00°	96-16-32-48-64-80	Meet C20, C21

If you challenge me to write a complicated heart, you'll get one. Thankfully this design can be cut in complete reverse order, to make the checkerboard meetpoints easier. In lower RIs, extinction gives the appearance of cupid's wings! Works in materials from petalite to rutile (RI = 1.50 - 2.62) with no changes, but I prefer spinel. Suggested size = 10-25 mm

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